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L2	7	generat$4 same independent$4 same model$4 same quer$4 same part$1 same result$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/20 10:22
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1 Simplified approaches to modeling accumulating and nonaccumulating conveyor systems
James O. Henriksen, Thomas J. Schriber
December 1986 **Proceedings of the 18th conference on Winter simulation**

Full text available: pdf(2.02 MB) Additional Information: full citation, abstract, references, citings, index

In many systems (e.g., manufacturing systems), transportation of work-in-process is accomplishe conveyors. The modeling of objects as they move along conveyors is logically demanding, especia object, inch-by-inch approach is taken. Two alternative and substantially simplified modeling appı representing movement of objects on conveyors are presented in this paper: the "minimum trave appropriate for accumulating convey ...

2 Performance analysis of ATM Banyan networks with shared queueing—part I: random offere
Stefano Gianatti, Achille Pattavina
August 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 4

Full text available: pdf(1.55 MB) Additional Information: full citation, references, citings, index terms

3 Tight bounds for k-set agreement
Soma Chaudhuri, Maurice Erlihy, Nancy A. Lynch, Mark R. Tuttle
September 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 5

Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, citings, index

We prove tight bounds on the time needed to solve k-set agreement. In this problem, each proce arbitrary input value taken from a fixed set, and halts after choosing an output value. In every ex distinct output values may be chosen, and every processor's output value must be some processc analyze this problem in a synchronous, message-passing model where processors f ...

Keywords: k-set agreement, Spwener's Lemma, crash failure model, message-passing systems, systems, topology

4 Independence in CLP languages
María García de la Banda, Manuel Hermenegildo, Kim Marriott
March 2000 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 2

Full text available: Additional Information:

pdf(465.79 KB) full citation, abstract, references, citings, index

Studying independence of goals has proven very useful in the context of logic programming. In pa provided a formal basis for powerful automatic parallelization tools, since independence ensures t be evaluated in parallel while preserving correctness and efficiency. We extend the concept of ind constraint logic programs (CLP) and prove that it also ensures the correctness and efficiency of th of independent goals. Independence ...

Keywords: constraint logic programming, independence, parallelism

5 Passes, sweeps, and visits in attribute grammars
Joost Engelfriet, Gilberto Filé
October 1989 **Journal of the ACM (JACM)**, Volume 36 Issue 4

Full text available: pdf(2.28 MB) Additional Information: full citation, abstract, references, index terms,

Theoretical results are presented on multi-pass (both left-to-right and alternating), multi-sweep, attribute grammars. For each of these, a pure type and a simple type are distinguished: The pure are defined by nondeterministic attribute evaluators, and the simple ones by the corresponding (u evaluators. The time complexity of deciding membership in these classes of attribute grammars is this is harder for the pure c ...

6 Concurrent search structure algorithms
Dennis Shasha, Nathan Goodman
March 1988 **ACM Transactions on Database Systems (TODS)**, Volume 13 Issue 1

Full text available: pdf(2.72 MB) Additional Information: full citation, abstract, references, citings, index

A dictionary is an abstract data type supporting the actions member, insert, and delete. A search structure used to implement a dictionary. Examples include B trees, hash structures, and unorder algorithms on search structures can achieve more parallelism than standard concurrency control r suggest, by exploiting the fact that many different search structure states represent one dictionar a framework for verifying such a ...

7 Special issue: AI in engineering
D. Sriram, R. Joobbani
January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1 SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is papers received from over six countries. About half the papers were received over the computer r

8 Models of machines and computation for mapping in multicomputers
Michael G. Norman, Peter Thanisch
September 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 3

Full text available: pdf(3.49 MB) Additional Information: full citation, references, citings, index terms

Keywords: mapping, multicomputer load balancing, multicomputers, partitioning, scheduling

9 PAC learning intersections of halfspaces with membership queries (extended abstract)
Stephen Kwek, Leonard Pitt
January 1996 **Proceedings of the ninth annual conference on Computational learning theory**

Full text available: pdf(1.16 MB) Additional Information: full citation, references, citings, index terms

10 Semantics of query languages for network databases
Kazimierz Subieta
September 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 3

Full text available: pdf(3.71 MB) Additional Information: full citation, abstract, references, index terms

Semantics determines the meaning of language constructs; hence it says much more than syntax implementing the language. The main purpose of this paper is a formal presentation of the meani constructs employed in many database languages (sublanguages). Therefore, stylized query langı Selection Language) and J (Joins) are introduced, wherein most of the typical entries present in o are collected. The semantics of SSL and J are ...

11 Distributed query evaluation on semistructured data
Dan Suciu
March 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 1

Full text available: pdf(689.88 KB) Additional Information: full citation, abstract, references, index terms

Semistructured data is modeled as a rooted, labeled graph. The simplest kinds of queries on such which traverse paths described by regular path expressions. More complex queries combine sever expressions, with complex data restructuring, and with sub-queries. This article addresses the prc query evaluation on distributed, semistructured databases. In our setting, the nodes of the datab over a fixed number of sites, and the ...

Keywords: Distributed evaluation, nested queries, parallel complexity, regular expressions, semi

12 Hypermedia and Graphics 1: Towards the convergence between hypermedia authoring lang architecture description languages
Débora Christina Muchaluat-Saade, Luiz Fernando Gomes Soares
November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**

Full text available: pdf(81.50 KB) Additional Information: full citation, abstract, references, citings, index

This paper presents a detailed comparison between the structural elements and definitions provid Authoring Languages and Architecture Description Languages (ADL). ADLs are formal languages t representing a software architecture. Although it may look trivial to make a direct correspondence hypermedia structural entities, such as components to nodes and connectors to links, interesting identified when observing them more closely ...

Keywords: ADL, architecture description languages, components, connectors, hypermedia autho structural meta-model

13 A semisupervised learning method to merge search engine results
Luo Si, Jamie Callan
October 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 4

Full text available: pdf(463.96 KB) Additional Information: full citation, abstract, references, citings, index

The proliferation of searchable text databases on local area networks and the Internet causes the information that may be distributed among many disjoint text databases (*distributed information* merge the results returned by selected databases is an important subproblem of the distributed ir task. Previous research assumed that either resource providers cooperate to provide normalizing clients download all retrie ...

Keywords: Distributed information retrieval, resource ranking, resource selection, results mergir learning method, server selection

14 A scalable formal method for design and automatic checking of user interfaces
Jean Berstel, Stefano Crespi Reghizzi, Gilles Roussel, Pierluigi San Pietro
April 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 1
Full text available: pdf(1.74 MB) Additional Information: full citation, abstract, references, index terms

The article addresses the formal specification, design and implementation of the behavioral compo user interfaces. The complex sequences of visual events and actions that constitute dialogs are sp modular, communicating grammars called VEG (Visual Event Grammars), which extend traditiona make them more convenient to model dialogs.A VEG specification is independent of the actual lay can easily be integrated with various la ...

Keywords: GUI design, Human-computer interaction (HCI), applications of model checking

15 Mixed integer programming methods for computing nonmonotonic deductive databases
Colin Bell, Anil Nerode, Raymond T. Ng, V. S. Subrahmanian
November 1994 **Journal of the ACM (JACM)**, Volume 41 Issue 6
Full text available: pdf(2.54 MB) Additional Information: full citation, abstract, references, citings, index

Though the declarative semantics of both explicit and nonmonotonic negation in logic programs h extensively, relatively little work has been done on computation and implementation of these sem we study three different approaches to computing stable models of logic programs based on mixe programming methods for automated deduction introduced by R. Jeroslow. We subsequently disc efficiency of these algorithms. The results of ...

Keywords: deductive databases, logic programming, nonmonotonic reasoning, operations resear

16 Generalized best-first search strategies and the optimality af A*
Rina Dechter, Judea Pearl
July 1985 **Journal of the ACM (JACM)**, Volume 32 Issue 3
Full text available: pdf(2.54 MB) Additional Information: full citation, abstract, references, citings, index

This paper reports several properties of heuristic best-first search strategies whose scoring functi the information available from each candidate path, not merely on the current cost g and the esti cost h. It is shown that several known properties of A* retain their form (with the minmax of f pla optimal cost), which helps establish general tests of admissibility and general condi ...

17 Detecting static algorithms by partial evaluation
Björn Lisper
May 1991 **ACM SIGPLAN Notices , Proceedings of the 1991 ACM SIGPLAN symposium on and semantics-based program manipulation**, Volume 26 Issue 9
Full text available: pdf(1.28 MB) Additional Information: full citation, references, citings, index terms

18 Deadlock detection in distributed databases
Edgar Knapp
December 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 4
Full text available: pdf(2.58 MB) Additional Information: full citation, abstract, references, citings, index

The problem of deadlock detection in distributed systems has undergone extensive study. An imp

relates to distributed database systems. A uniform model in which published algorithms can be ca fundamental principles on which distributed deadlock detection schemes are based are presented. represent mechanisms for developing distributed algorithms in general and deadlock detection scl In addition, a hierarchy of deadlock ...

19 Session 10: Algebraic aspects of relational database decomposition
Stephen J. Hegner
March 1983 **Proceedings of the 2nd ACM SIGACT-SIGMOD symposium on Principles of data**

Full text available: pdf(1.78 MB) Additional Information: full citation, abstract, references, citings

An algebraic framework for investigating the problem of decomposing a relational database schen is developed. It is argued that the views of a relational schema which are to be the components o should form a finite atomic Boolean algebra. The unit of the algebra is the identity view, and the z The join operation in this algebra is to be a generalization of the usual concept of join; the resulti contain precisely the representat ...

20 Institutions: abstract model theory for specification and programming
Joseph A. Goguen, Rod M. Burstall
January 1992 **Journal of the ACM (JACM)**, Volume 39 Issue 1

Full text available: pdf(3.81 MB) Additional Information: full citation, abstract, references, citings, index

There is a population explosion among the logical systems used in computing science. Examples i logic, equational logic, Horn-clause logic, higher-order logic, infinitary logic, dynamic logic, intuitic sorted logic, and temporal logic; moreover, there is a tendency for each theorem prover to have i logical system. The concept of institution is introduced to formalize the informal notion of "logical

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IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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Yu-Kwong Kwok; Karlapalem, K.; Ahmad, I.; Ng Moon Pun;
Selected Areas in Communications, IEEE Journal on
Volume 14, Issue 7, Sept. 1996 Page(s):1332 - 1348
AbstractPlus | References | Full Text: PDF(1652 KB) IEEE JNL

2. **A new general purpose parallel database system**
Afshar, M.; Bates, J.; Bierman, G.; Moody, K.;
Parallel Architectures, Algorithms, and Networks, 1997. (I-SPAN '97) Proceedings. Thi
Symposium on
18-20 Dec. 1997 Page(s):2 - 8
AbstractPlus | Full Text: PDF(676 KB) IEEE CNF

3. **An evidential reasoning approach to attribute value conflict resolution in databas**
Ee-Peng Lim; Srivastava, J.; Shekhar, S.;
Knowledge and Data Engineering, IEEE Transactions on
Volume 8, Issue 5, Oct. 1996 Page(s):707 - 723
AbstractPlus | References | Full Text: PDF(1444 KB) IEEE JNL